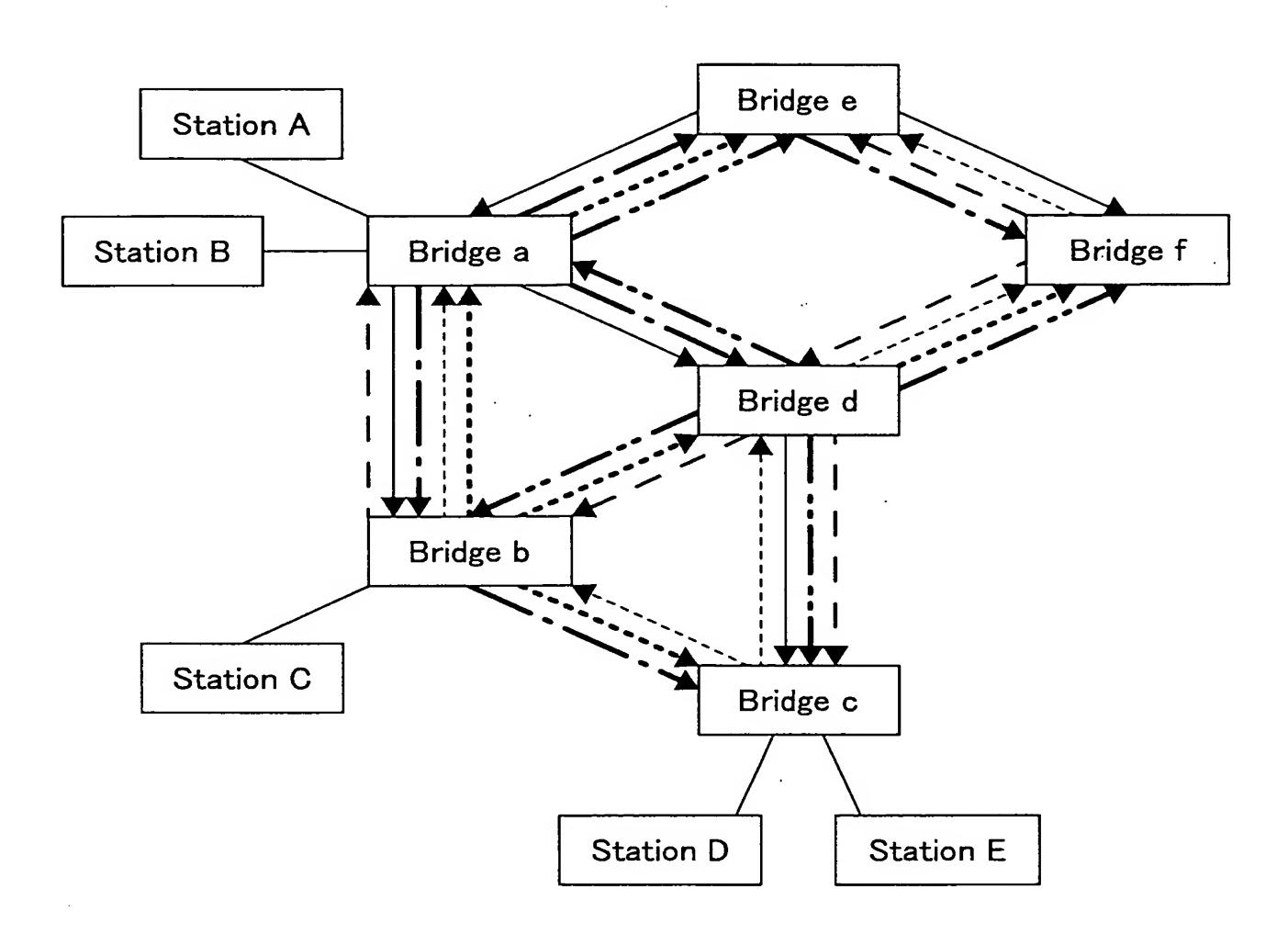
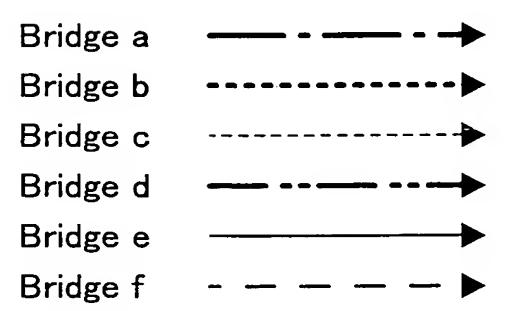


PRIOR ART

FIG.3





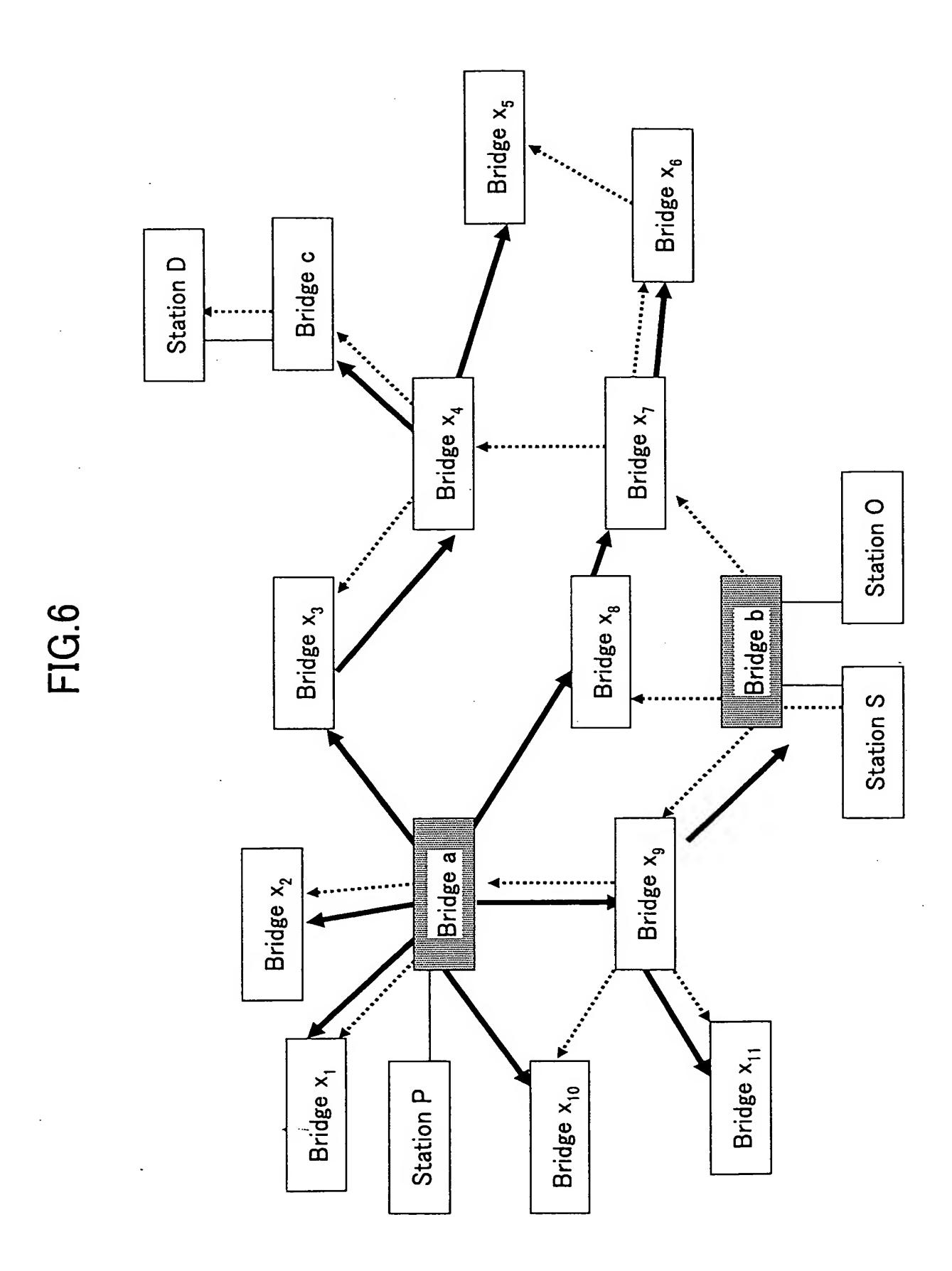
Oblon, Spivak, et al. 703-413-3000 Docket # 295119US8PCT Sheet 4 of 25

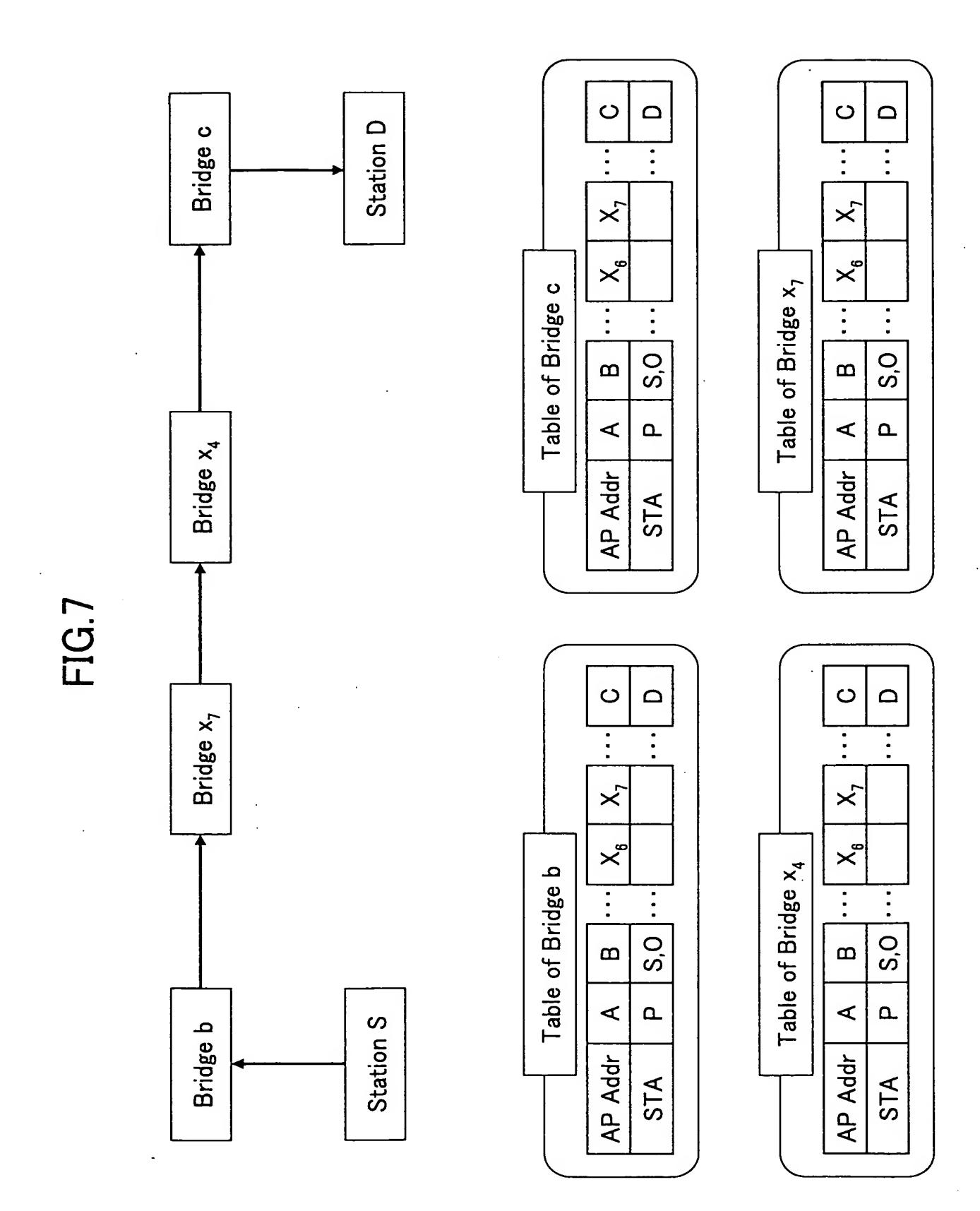
FIG.4

ROOT BRIDGE	TREE ID	PREVIOUS NODE	NEXT NODE
Bridge a	Tree A	Bridge a	_
Bridge b	Tree B	Bridge b	Bridge f
Bridge c	Tree C	Bridge c	Bridge f
Bridge d	Tree D		Bridge a Bridge b Bridge c Bridge f
Bridge e	Tree E	Bridge a	Bridge c
Bridge f	Tree F	Bridge f	Bridge b Bridge c

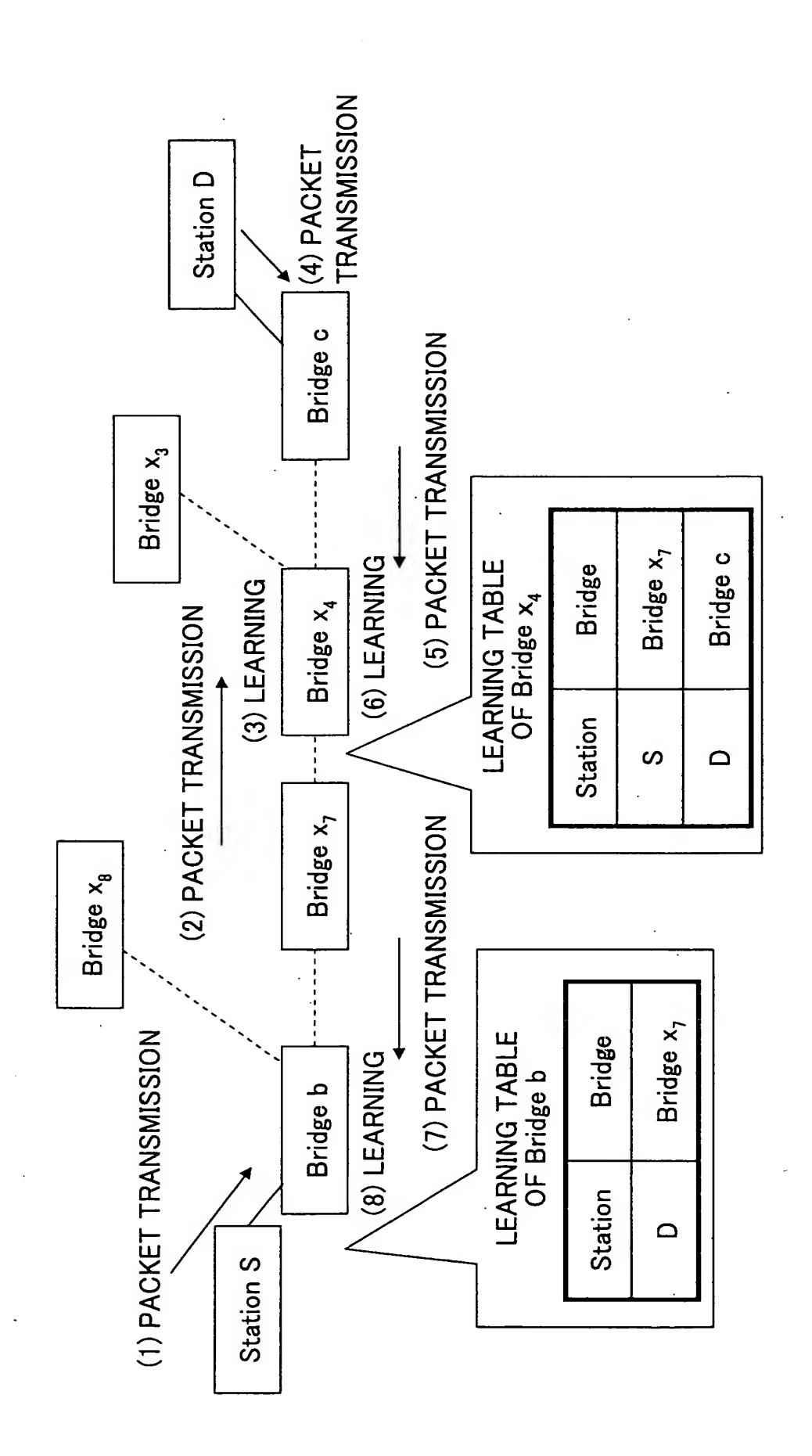
FIG 5

i						
	To DS	From	ADDRESS 1	ADDRESS 2	ADDRESS 3	ADDRESS 4
STA→BRD	_	0	ADDRESS OF RECEIVING NODE	SOURCE ADDRESS	DESTINATION ADDRESS	RESERVED
BETWEEN BRDs	—		ADDRESS OF RECEIVING NODE	ADDRESS OF TRANSMITTING NODE	DESTINATION ADDRESS	SOURCE ADDRESS
BRD→STA	0		ADDRESS OF RECEIVING NODE	ADDRESS OF TRANSMITTING NODE	SOURCE ADDRESS	RESERVED

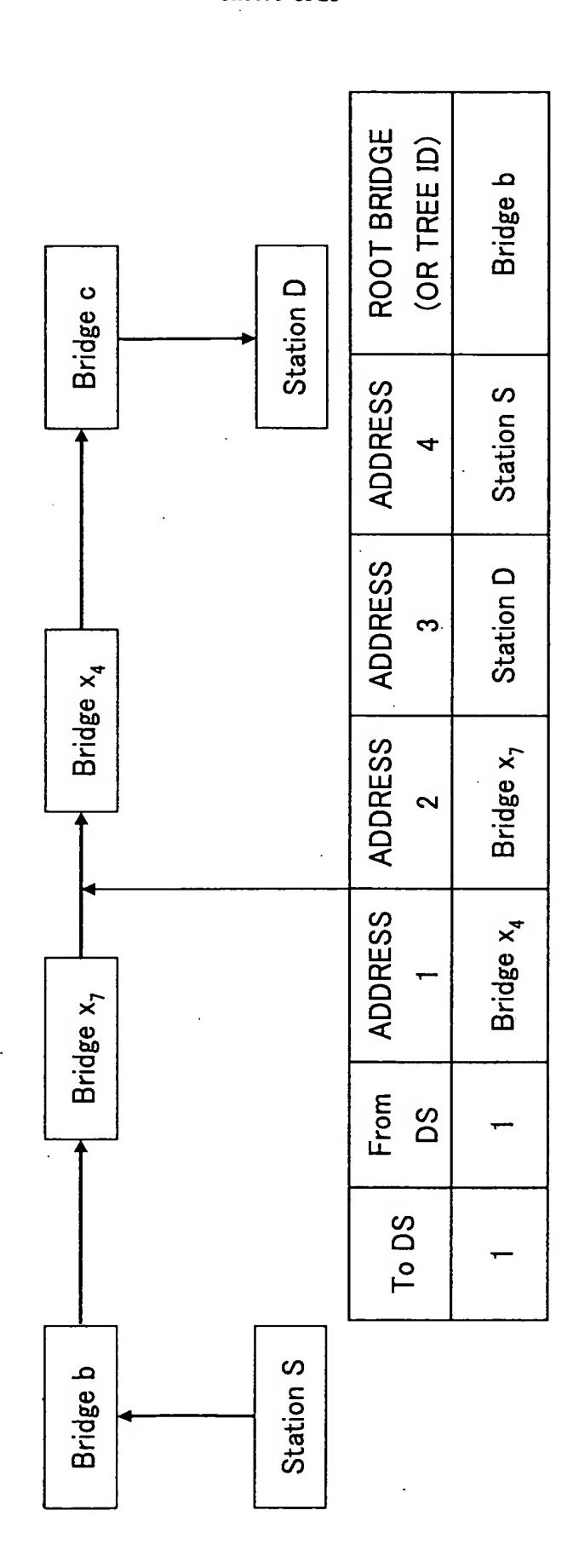














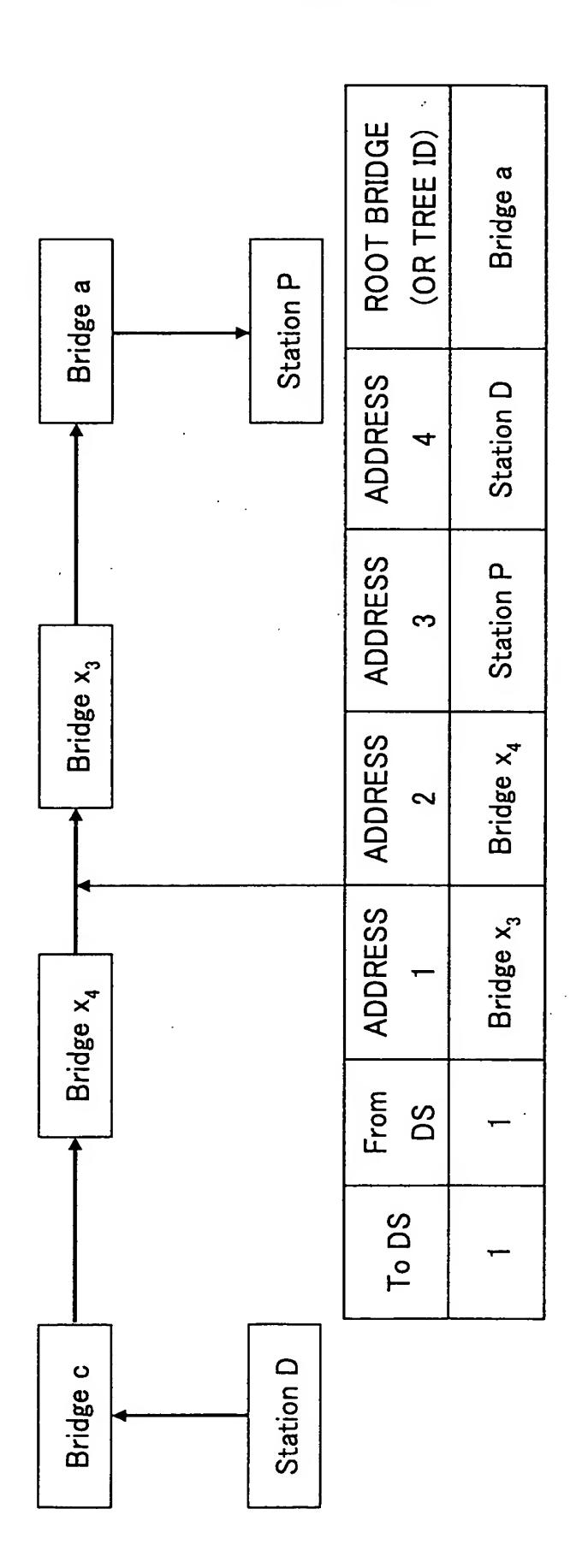
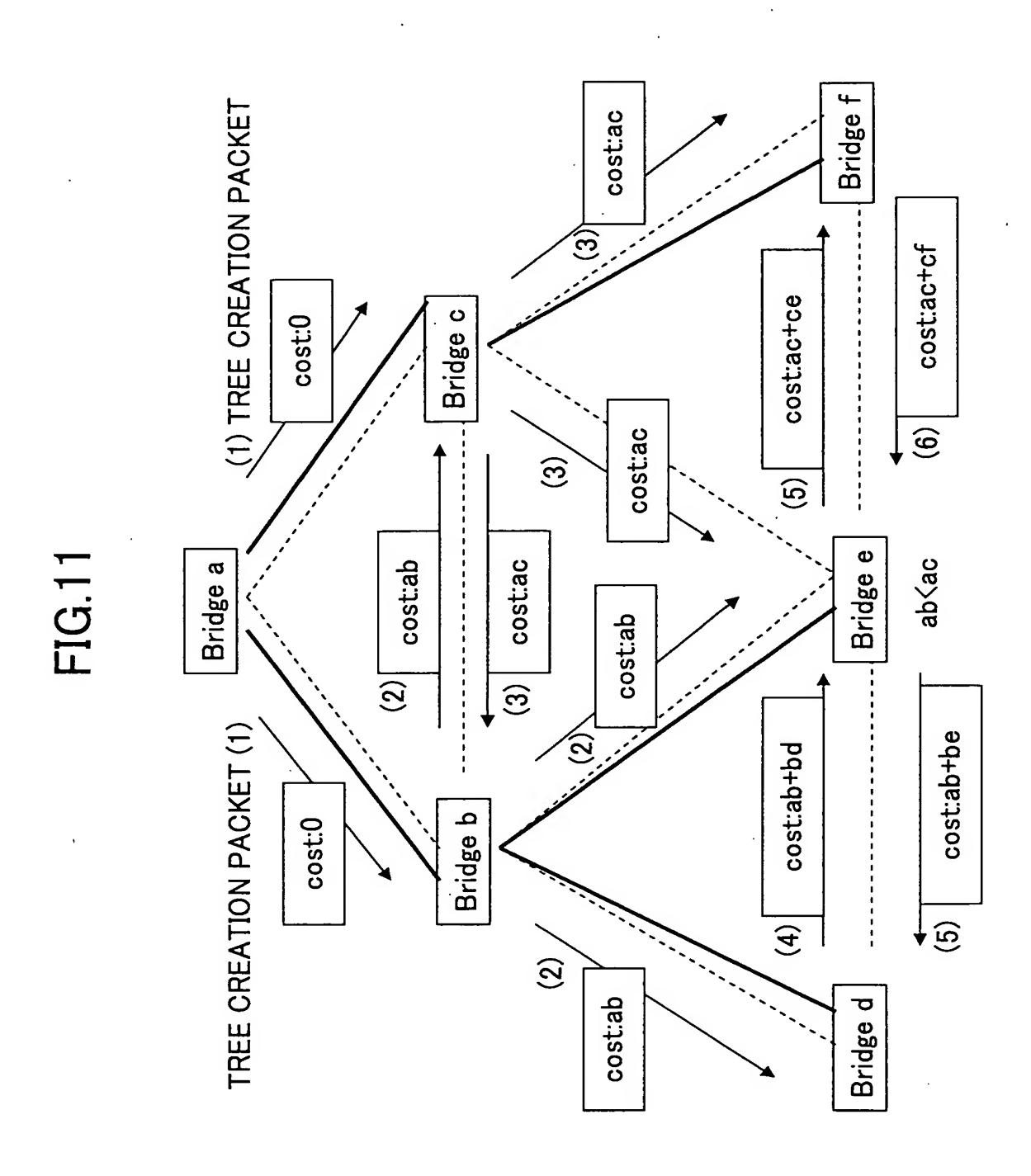


FIG.10A

Bridge	Signal	Queue size	Error Rate
а	-15dbm	30k[bit]	10-6
b	-30dbm	65k[bit]	10-5
С	-48dbm	12k[bit]	10 ⁻⁸
е	-65dbm	240k[bit]	10-3

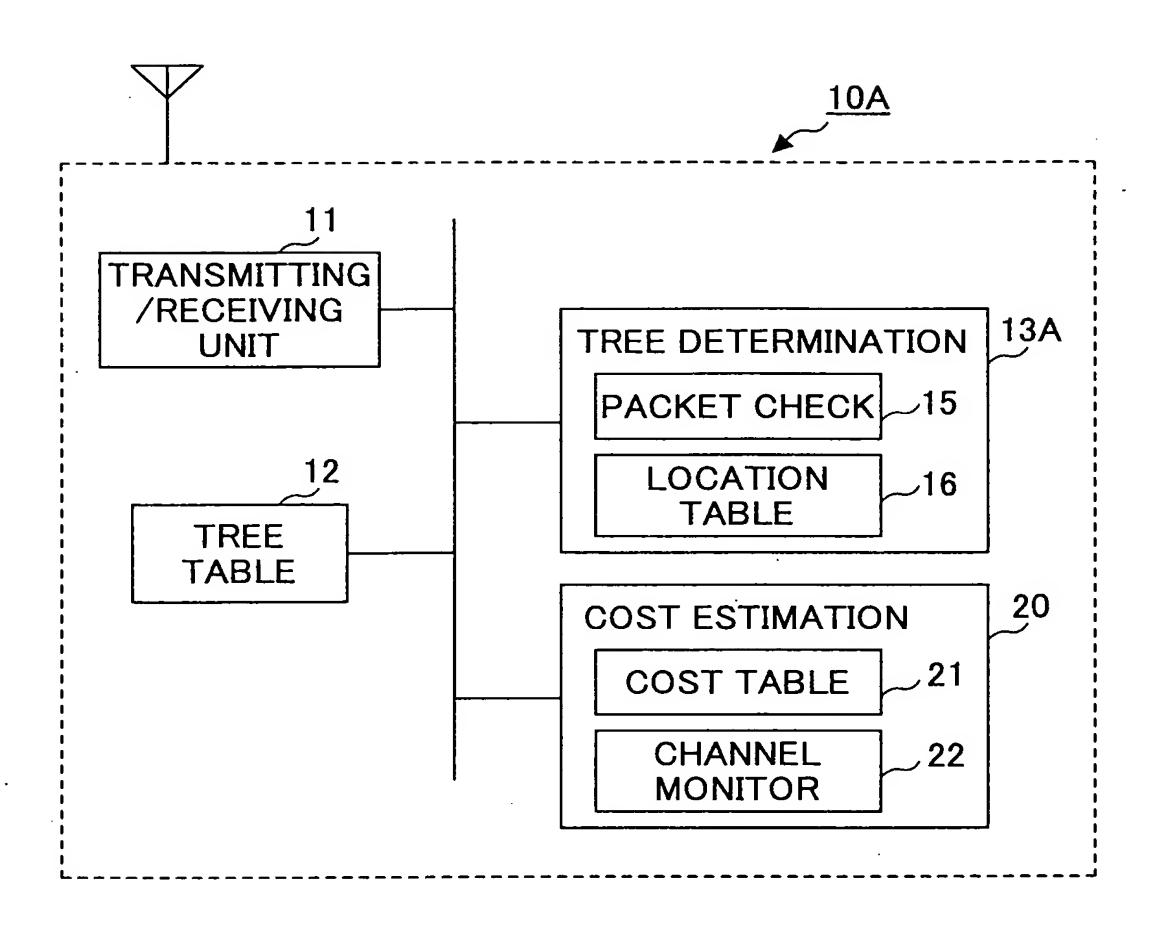
FIG.10B

Bandwidth (Mbps)	link cost
10	2,000,000
100	200,000
1000	20,000
10,000,000	2



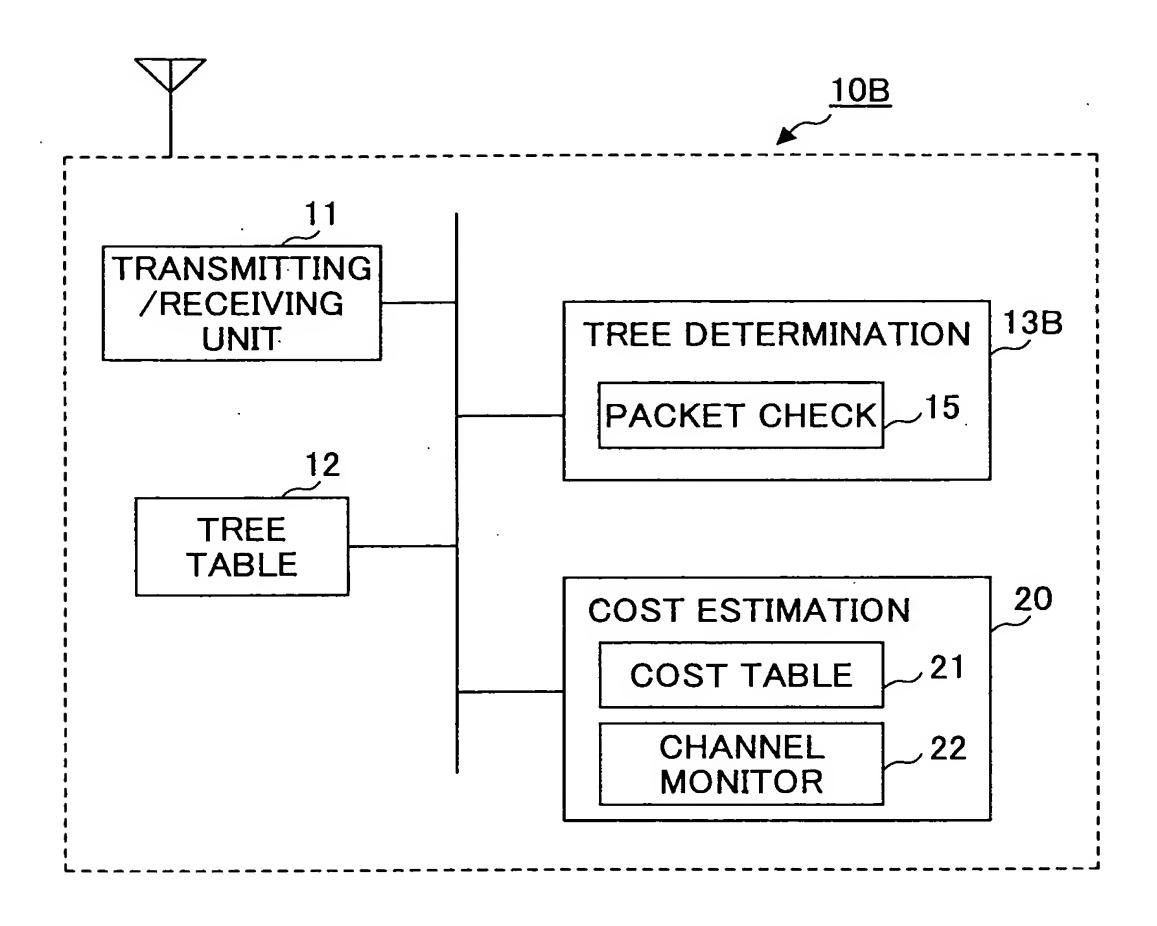
Oblon, Spivak, et al. 703-413-3000 Docket # 295119US8PCT Sheet 13 of 25

FIG.12A



Oblon, Spivak, et al. 703-413-3000 Docket # 295119US8PCT Sheet 14 of 25

FIG.12B



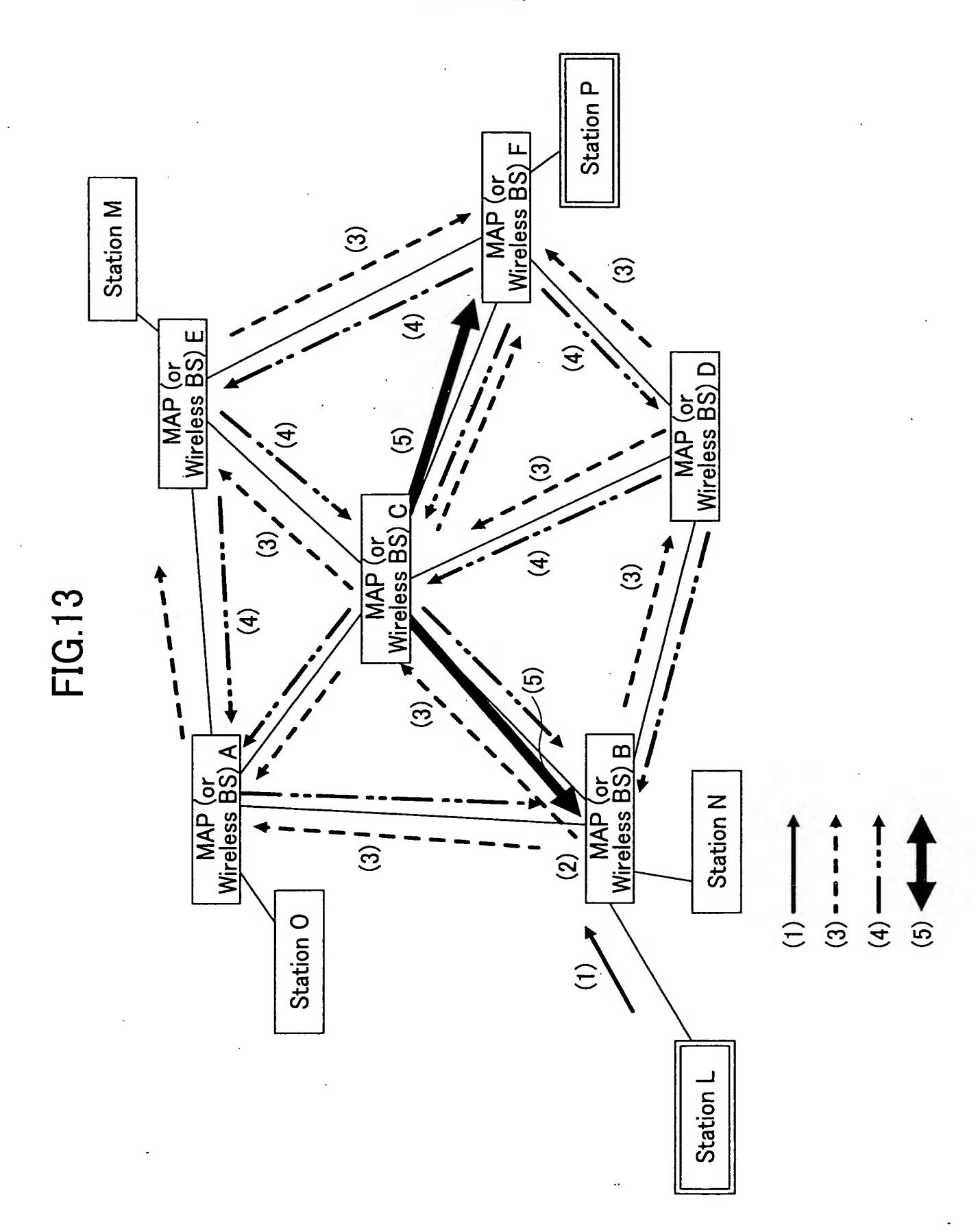


FIG.14A

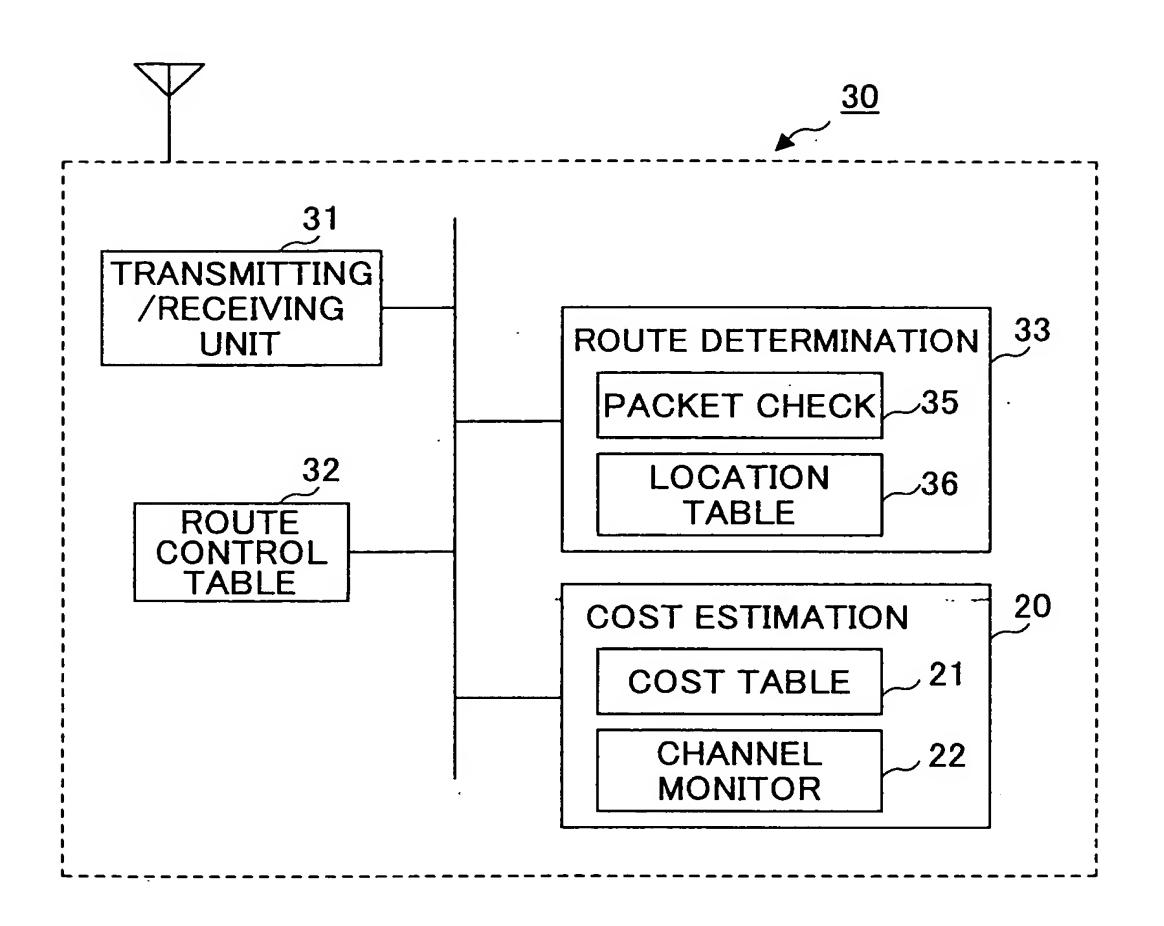
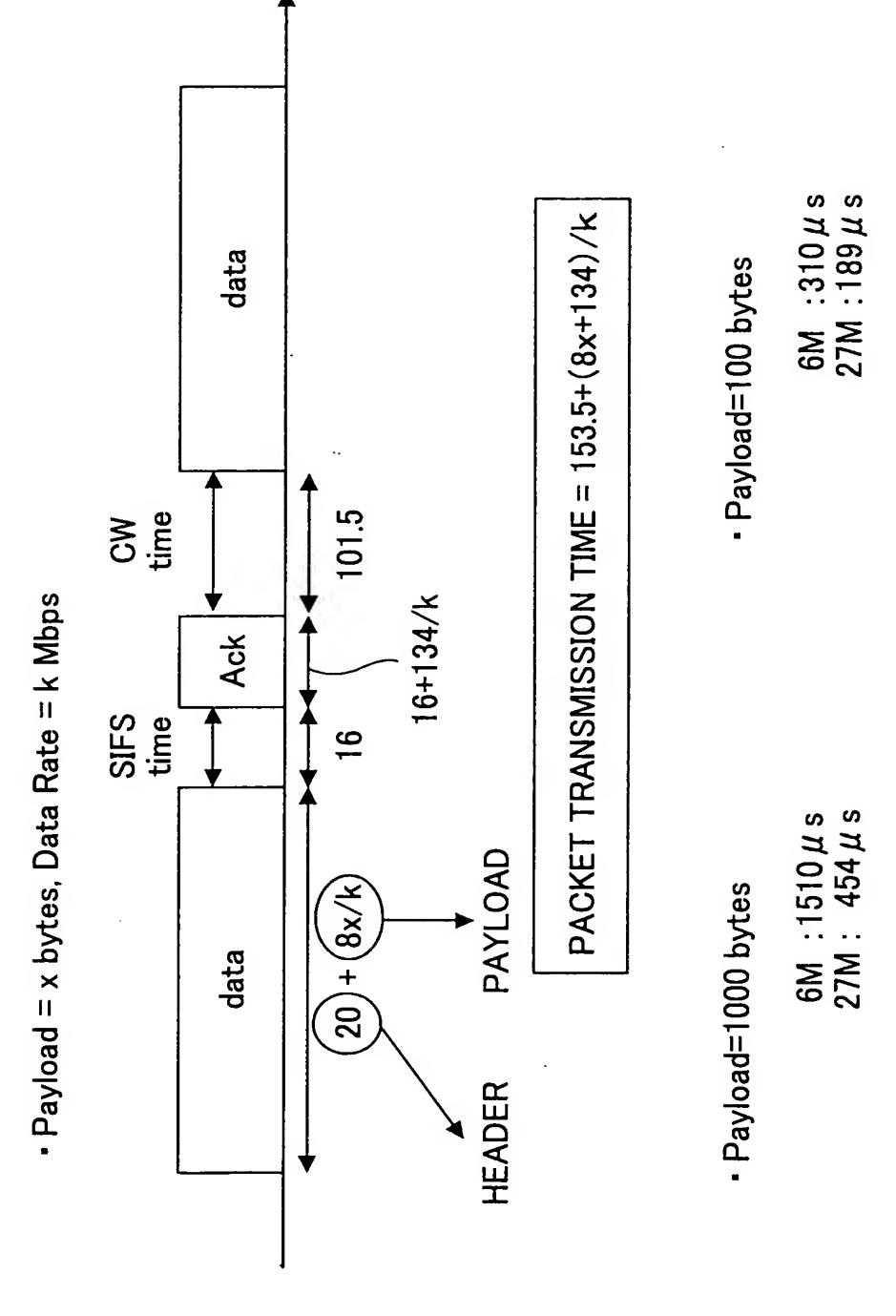


FIG.14B

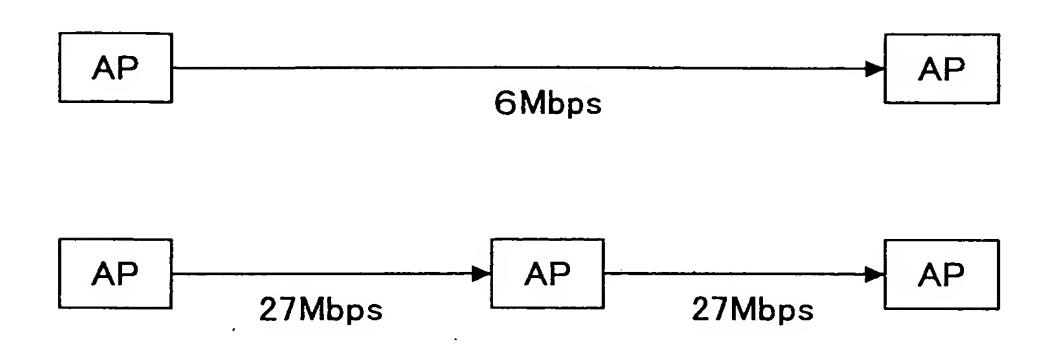
TARGET BS (ON THE DESTINATION SIDE)	NEXT HOP
Α .	Ä
С	С
D	D
E	Α
F	C

FIG. 15



Oblon, Spivak, et al. 703-413-3000 Docket # 295119US8PCT Sheet 18 of 25

FIG.16



Payload=1000 bytes

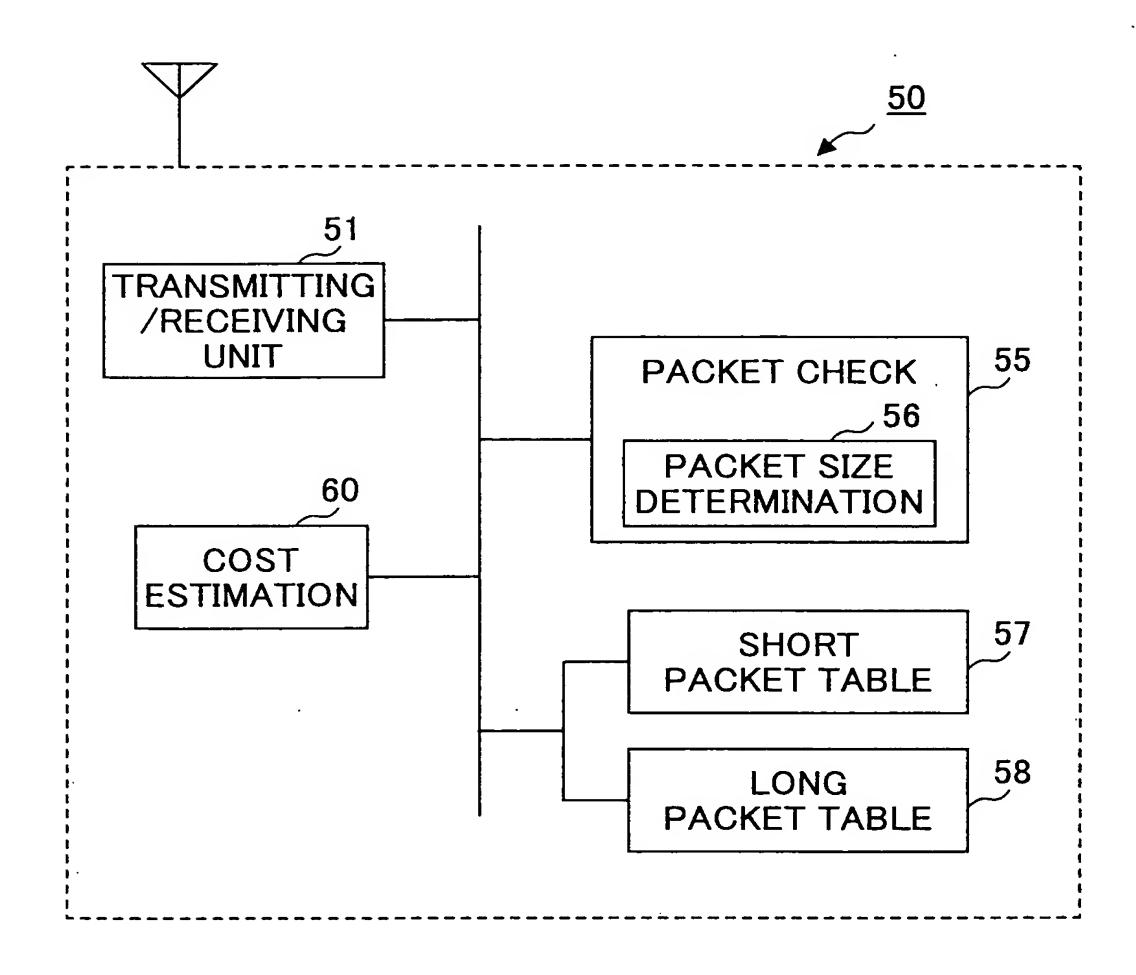
Payload=100 bytes

1 hop : $310 \times 1 = 310 \,\mu s$ 2.6Mbps 2 hops: $189 \times 2 = 378 \,\mu s$ 1.9Mbps

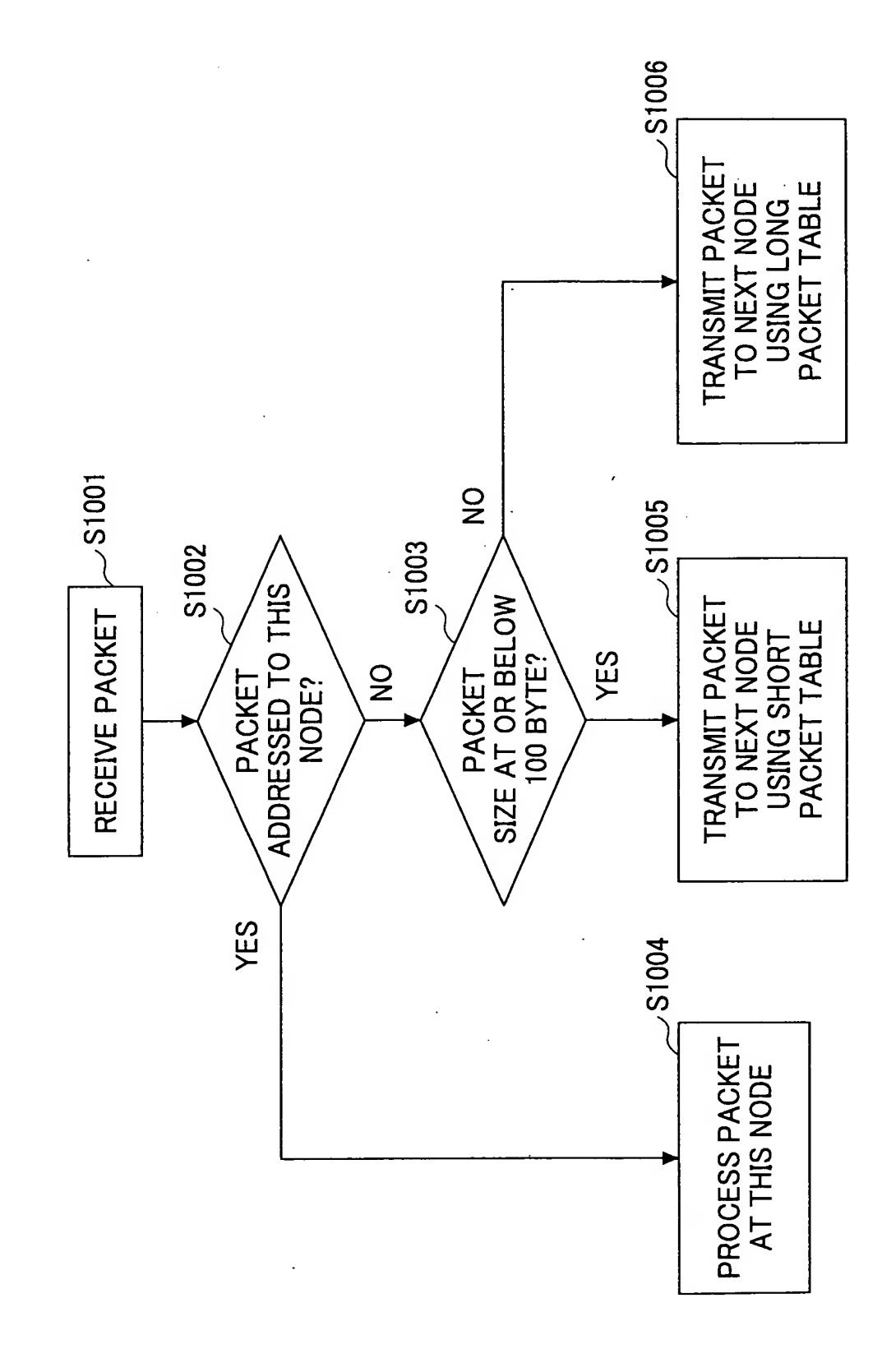
OPTIMUM ROUTE VARIES DEPENDING ON PAYLOAD SIZE

Oblon, Spivak, et al. 703-413-3000 Docket # 295119US8PCT Sheet 19 of 25

FIG.17







Oblon, Spivak, et al. 703-413-3000 Docket # 295119US8PCT Sheet 21 of 25

FIG.19

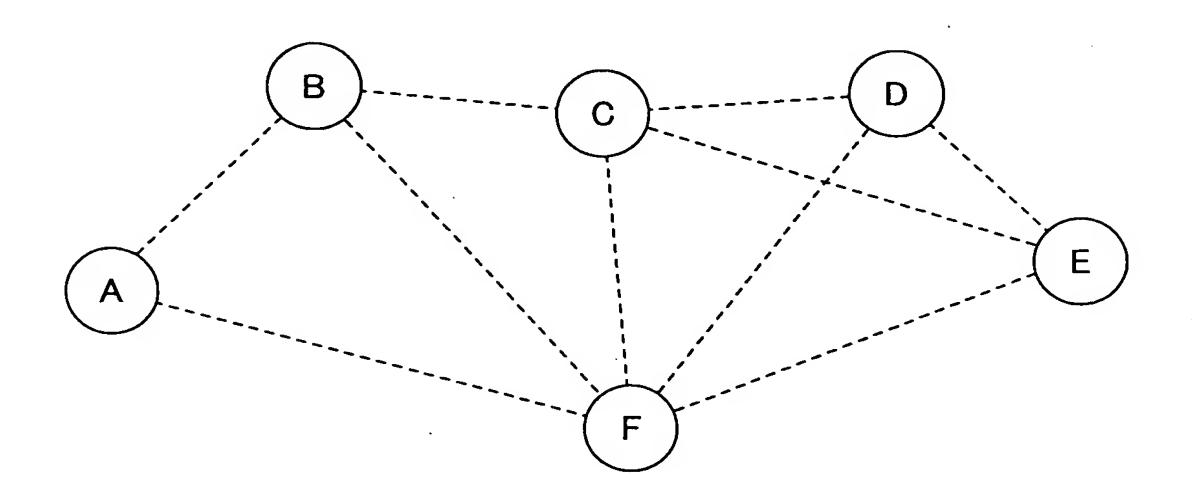
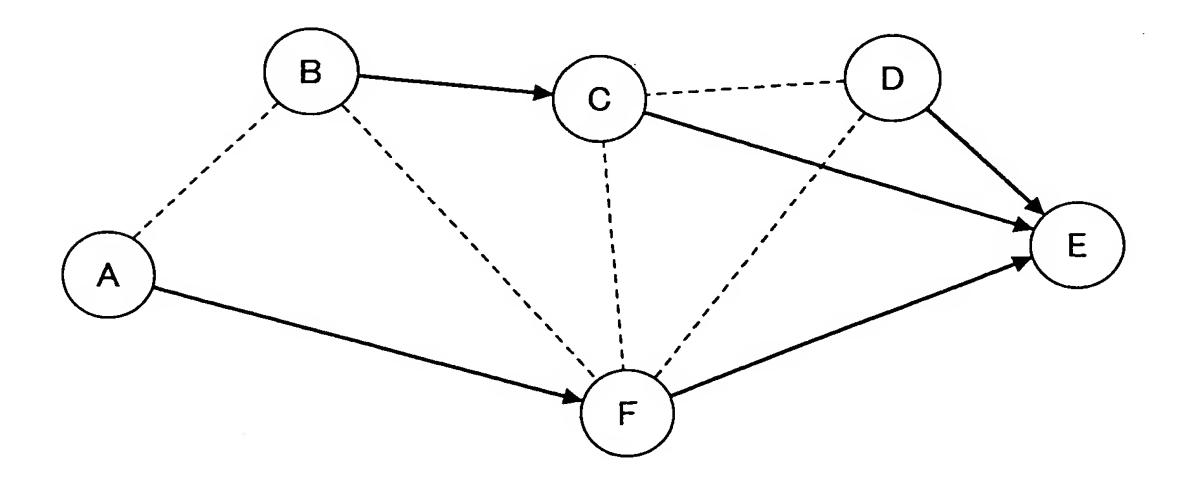


FIG.20A



Oblon, Spivak, et al. 703-413-3000 Docket # 295119US8PCT Sheet 22 of 25

FIG.20B

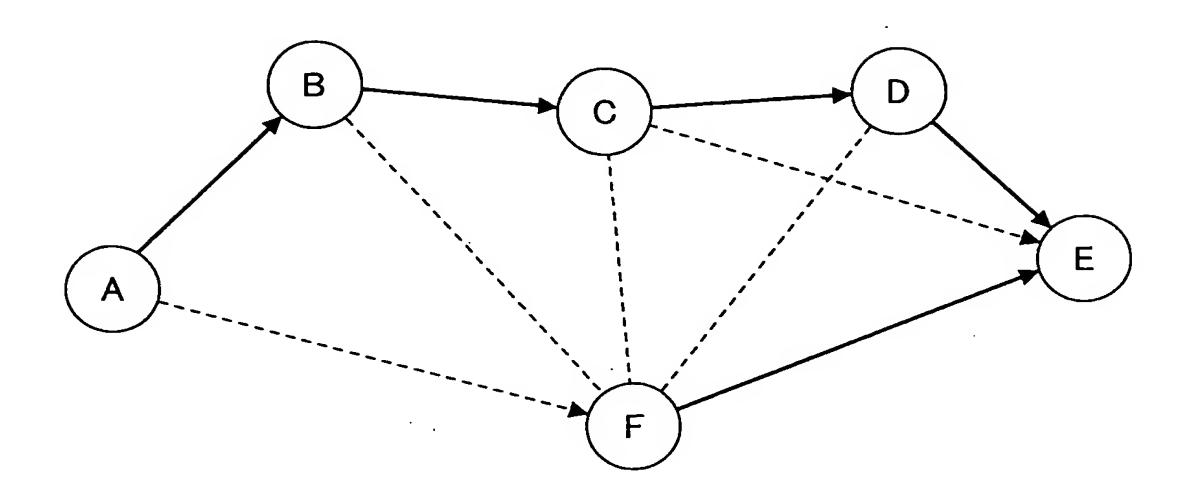


FIG.21A

DESTINATION	ROUTE
Α	
В	В
С	B → C
· D	$B \rightarrow C \rightarrow D$
E	. F → E
F	F

Oblon, Spivak, et al. 703-413-3000 Docket # 295119US8PCT Sheet 23 of 25

FIG.21B

DESTINATION	ROUTE
Α	_
В	В
С	$B \rightarrow C$
D	$B \rightarrow C \rightarrow D$
E	$B \rightarrow C \rightarrow D \rightarrow E$
F	F

FIG.22A

DESTINATION	NEXT NODE
A	
В	В
С	В
D	В
E	F
F	F .

Oblon, Spivak, et al. 703-413-3000 Docket # 295119US8PCT Sheet 24 of 25

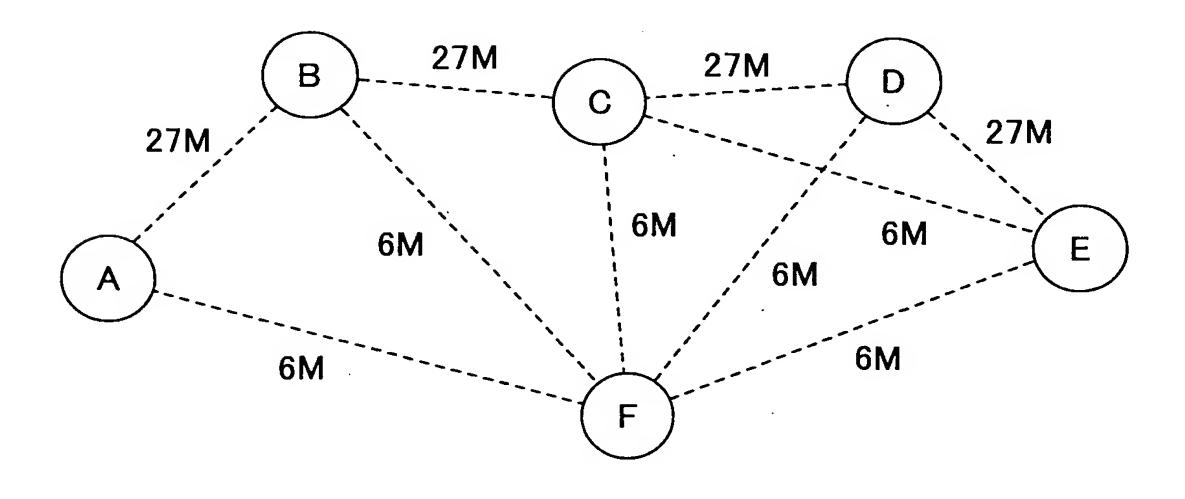
FIG.22B

DESTINATION	NEXT NODE
A	<u>—</u>
В	В
С	. B
D	В
E	В
F	F

Oblon, Spivak, et al. 703-413-3000 Docket # 295119US8PCT Sheet 25 of 25

FIG.23

 $1:A \rightarrow F \rightarrow E$ $2:A \rightarrow B \rightarrow C \rightarrow E$ $3:A \rightarrow B \rightarrow C \rightarrow D \rightarrow E$



Cost1 = AF+FE=310+310=620 Cost2 = AB+BC+CE=189+189+310=688 Cost3 = AB+BC+CD+CE=756

Cost1 = AF+FE=1510+1510=3020 Cost2 = AB+BC+CE=454+454+1510=2418 Cost3 = AB+BC+CD+CE=454+454+454+454=1816